I hereby certify that this paper (along with any paper referred to as being attached or enclosed) is being deposited with the U.S. Postal Service on the date shown below with sufficient postage as First Class Mail, in an envelope addressed to: MS PCT, Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450

Dated: May 9, 2007

Signature: (James J. Napoli)

Docket No.: 29827/42222

(PATENT)

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re Patent Application of:

Ulrich Riegel et al.

Application No.: 10/588,671

7/588,671 Confirmation No.: 9953

Filed: August 8, 2006 Art Unit: 1713

For: POSTCROSSLINKING OF WATER-

ABSORBING POLYMERS

Examiner: Not Yet Assigned

TRANSMITTAL OF ENGLISH-LANGUAGE TRANSLATION OF THE INTERNATIONAL PRELIMINARY REPORT ON PATENTABILITY

MS PCT Commissioner for Patents P.O. Box 1450 Alexandria, VA 22313-1450

Dear Sir:

Applicants hereby submit an English-language translation of the International Preliminary Report on Patentability issued in connection with PCT/EP2005/001673, from which applicants claim priority.

Dated: May 9, 2007

Respectfully submitted,

James J. Napoli

Registration No.: 32,361

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Sears Tower

Chicago, Illinois 60606-6357

(312) 474-6300

Attorney for Applicant

PATENT COOPERATION TREATY

PCT/EP2005/001673

PCT

NOTIFICATION OF TRANSMITTAL
OF COPIES OF TRANSLATION
OF THE INTERNATIONAL PRELIMINARY REPORT
ON PATENTABILITY
(CHAPTER I OR CHAPTER II
OF THE PATENT COOPERATION TREATY)

(PCT Rules 44bis.3(c) and 72.2)

To:

BASF AKTIENGESELLSCHAFT
67056 Ludwigshafen
ALLEMAGNE

Date of mailing (day/month/year) 08 February 2007 (08.02.2007)	AST/V
Applicant's or agent's file reference 0000055369	IMPORTANT NOTIFICATION
International application No. PCT/EP2005/001673	International filing date (day/month/year) 18 February 2005 (18.02.2005)
Applicant BASF	AKTIENGESELLSCHAFT et al PNAK GONDH 14.07 0

 Transmittal of the translation to the applicant. 	1.	Transmittal	of the	translation	to	the applicant.
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The International	Bureau transmits herewith a copy of the En	inglish translation of the int	ernational preliminary report on
patentability (Char			

The International Bureau transmits herewith a copy of the English translation of the international preliminary report on patentability (Chapter II).

2. Transmittal of the copy of the translation to the designated or elected Offices.

The International Bureau notifies the applicant that copies of that translation have been transmitted to the following designated or elected Offices requiring such translation:

KR

The following designated or elected Offices, having waived the requirement for such a transmittal at this time, will receive copies of that translation from the International Bureau only upon their request:

AE, AG, AL, AM, AP, AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EA, EC, EE, EG, EP, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NA, NI, NO, NZ, OA, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SM, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW

3. Reminder regarding translation into (one of) the official language(s) of the elected Office(s).

The applicant is reminded that, where a translation of the international application must be furnished to an elected Office, that translation must contain a translation of any annexes to the international preliminary report on patentability (Chapter II).

It is the applicant's responsibility to prepare and furnish such translation directly to each elected Office concerned within the applicable time limit (Rule 74.1). See Volume II of the PCT Applicant's Guide for further details.

The International Bureau of WIPO 34, chemin des Colombettes 1211 Geneva 20, Switzerland

Authorized officer

Yolaine Cussac

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PATENT COOPERATION TREATY

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TRANSLATION INTERNATIONAL PRELIMINARY REPORT ON PATENTABILITY (Chapter II of the Patent Cooperation Treaty)

(PCT Article 36 and Rule 70)

l	nt's or ag	ent's file reference 369	e	FOR FURTHER AC	CTION	See Form PCT/IPEA/416
Internati	onal app	lication No.		International filing dat	e (day/month/year)	Priority date (day/month/year)
PCT	/EP2	005/001	573	18.02.200	5	24.02.2004
Internati	onal Pate	ent Classification	(IPC) or natio	l onal classification and I	PC	
C08	J3/2	4 C08F20	0/06			
Applicar BAS		TIENGES	ELLSCH	\ FT		
1.		-	•	ninary examination rep e applicant according to	•	nternational Preliminary Examining Authority
2.	This R	EPORT consists	of a total of		sheets, including	this cover sheet.
3.	This re	port is also accor	npanied by Al	NNEXES, comprising:		
	a. 🗵	tsent to the	applicant and	to the International Bur	reau) a total of 3	sheets, as follows:
		Sheets	of the descrip containing rec	tion, claims and/or drav	vings which have been a	mended and are the basis for this report and/or le 70.16 and Section 607 of the Administrative
		sheets	which superso			siders contain an amendment that goes beyond in item 4 of Box No. I and the Supplemental
	ъ	7	International I	Bureau only) a total of (indicate type and number	of electronic carrier(s))
						, containing a sequence listing and/or tables
				readable form only, as rative Instructions).	indicated in the Suppler	mental Box Relating to Sequence Listing (see
4.	This re	port contains ind	ications relati	ng to the following item	s:	
	\boxtimes	Box No. I	Basis of the	report		
i	\sqsubseteq	Box No. II	Priority			
		Box No. III	Non-establi:	shment of opinion with	regard to novelty, inventi	ve step and industrial applicability
		Box No. IV	Lack of unit	ty of invention		•
		Box No. V		atement under Article 3 d explanations supportin		ty, inventive step or industrial applicability:
		Box No. VI	Certain doc	uments cited		
		Box No. VII	Certain defe	ects in the international	application	
	\boxtimes	Box No. VIII	Certain obse	ervations on the internat	ional application	
Date of	submissi	on of the demand	i		Date of completion of thi	s report
				j	-	
Name ar	nd maili	ng address of the	IPEA/EP		Authorized officer	
Facsimi	le No.				Telephone No.	

INTERNATIONAL PRELIMINARY REPORT ON PATENTABILITY

International application No.

PCT/EP2005/001673

Box	No. I	Basis of the report		
1.		n regard to the language, this report is based on the internaticated under this item.	onal application in the language in which it was filed, unless otherwise	
		This report is based on translations from the original languable which is the language of a translation furnished for the put		- `
		international search (Rule 12.3 and 23.1(b))		
		publication of the international application (Rule 12	4)	
		international preliminary examination (Rule 55.2 an		
2.	recei	n regard to the element s of the international application, the iving Office in response to an invitation under Article 14 of report):	is report is based on (replacement sheets which have been furnished to are referred to in this report as "originally filed" and are not annexed	the l to
		the international application as originally filed/furnished		
	\boxtimes	the description:		
		pages 1-21	as originally filed/furnishe	:d
		pages*	received by this Authority on	_
		pages*	received by this Authority on	_
	\boxtimes	the claims:		
		nos.	as originally filed/furnishe	:d
		nos.*	as amended (together with any statement) under Article 1	9
		nos.* _ 1-26	received by this Authority on of 28.07.2005 with letter	_
		nos.*	received by this Authority on	
		the drawings:		
		sheets	as originally filed/furnishe	ed
		sheets*	received by this Authority on	
		sheets*	received by this Authority on	-
		a sequence listing and/or any related table(s) - see Supple	mental Box Relating to Sequence Listing.	-
3.		The amendments have resulted in the cancellation of:		
		the description, pages		
		the claims, nos.		-
				-
		the sequence listing (specify):		-
		any table(s) related to sequence listing (specify):		-
4.		This report has been established as if (some of) the amer	ndments annexed to this report and listed below had not been made, si filed, as indicated in the Supplemental Box (Rule 70.2(c)).	- nce
		the description, pages		
				-
				_
		——————————————————————————————————————		_
		any table(s) related to sequence listing (specify):		_
#	If ite	em 4 applies, some or all of those sheets may be marked "su		_

INTERNATIONAL PRELIMINARY REPORT ON PATENTABILITY

International application No.
PCT/EP2005/001673

No. V			de 35(2) with regard to novelty, inventive step or industrial applicability; orting such statement	
Stateme	nt			
Nov	elty (N)	Claims		Y
			1-26	_ _ N
,				
Inve	ntive step (IS)	Claims	1.06	— ,
		Claims	1-26	_ N
Indu	strial applicability (IA)	Claims _	1-26	`
		Claims		^
Citation	ns and explanations (Rule	70.7)		
1.	•		o the following documents:	
			2 A1 (BASF AG) 13 April 2000 (2000-04-13)	
			B1 (MERTENS RICHARD ET AL)	
			2003 (2003-09-16)	
		=	A (GOLDMAN ET AL) 4 February 1997	
		7-02-04)	· ·	
2.	Novelty over	D1 and	D3	
2.1.	Novelty over	D1		
	Novelty over	D1 has	been established by adoption of specific	
	concentration	on ranges	s for the surface postcrosslinker and for	
	the polyvale	ent catio	on in claim 1.	
2.2.	Novelty ove	c D3		
	_		feature over D3 is the presence of	
	polyvalent o	cations o	on the absorber surface.	
2.3.	Accordingly	the clas	imed process and the claimed water-	
	absorbing po	olymers a	are novel over D1 and D3.	
3.	Novelty and	inventi	ve step over D2	
3.1.	Novelty of	process (claims 1-20	
	The present	applicat	tion fails to meet the requirements of PCT	
	-		e the subject matter of claims 1-20 is not	
	novel under		-	
	Document D2	disclos	es processes for preparing water-absorbing	
	polymers ba	sed on p	artially neutralized monomers bearing acid	
	groups (70	mol% neu	tralization in examples 28 and 29) by post-	

PCT/EP2005/001673

Box No. V Reasoned statement under Article 35(2) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement

> crosslinking the corresponding base polymers by treatment with a solution of a surface postcrosslinker B and a solution of a polyvalent cation C, and thermal treatment (D2: column 7/lines 50-55). The cited passage of text explicitly describes the separate addition of a surface postcrosslinker solution and of a salt solution containing polyvalent cations simultaneously. In other words, the addition must take place via two separate nozzles. This process variant is an obvious alternative to a process in which the two components (surface postcrosslinker and polyvalent cation) are added together in one solution. This generally applicable and inventive teaching of document D2 can of course be applied to all embodiments. Examples 28 and 29 of document D2 describe novelty-prejudicing amounts for the surface postcrosslinker and the polyvalent cation: 0.5% by weight in each case. There is no explicit description of what variant of the addition of the surface postcrosslinker and the polyvalent cation was selected in examples 28 and 29. In accordance with the general teaching in D2, however, both of the aforementioned variant modes of addition are possible. Consequently there are not 3 selections to be made, as the applicant has argued, but instead a maximum of one selection, namely the separate metering. Since no more than one selection must be made, the teaching of document D2 is also prejudicial to the novelty of the amended set of claims, under PCT Article 33(2).

- 3.2 Inventive step of process claims 1-20 Since novelty has not been established for the process claims, it is not possible to discuss the inventive step (PCT Article 33(3)).
- 3.3. Novelty of product claims 21-26 The product claims 21-26 are not novel over the closest prior art D2, under PCT Article 33(2). It is possible that a significantly increased value for the fluid transmissibility, of at least 80×10^{-7} cm³s/q, in combination with a small amount of surface postcrosslinker and polyvalent cation employed, could form the distinguishing feature. Since,

INTERNATIONAL PRELIMINARY REPORT ON PATENTABILITY

International application No.
PCT/EP2005/001673

Box No. V Reasoned statement under Article 35(2) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement

however, no methods of determining this possible distinguishing feature have been specified, it possesses no meaningfulness and is therefore unable to delimit the subject matter of the invention from the closest prior art D2.

- 3.4. Inventive step of product claims 21-26Since novelty has not been established for the product claims, it is not possible to discuss the inventive step (PCT Article 33(3)).
- 4. Industrial applicability

 The industrial applicability of the subject matter of claims

 1-26 according to PCT Article 33(4) exists in the field of the preparation of strongly water-absorbing polymers.
- 5. The requirements of PCT Article 33(1) have not been met, on account of a lack of novelty of claims 1-26.

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Box No. VIII Certain observations on the international application

The following observations on the clarity of the claims, description, and drawings or on the question whether the claims are fully supported by the description, are made:

- 1. The statement of claim 21 is not consistent with the content of the passage of text on page 11 lines 35-36. According to claim 21 the polymer must have to an extent of at least 80% by weight a particle size of between 150 and 600 μ m, whereas according to the passage of text at page 11 lines 35-36 this particle size range is merely optional. Consequently the two passages are inconsistent and are contrary to the requirements of PCT Article 6.
- Claim 12 Claim 12 is dependent on claim 1, but at 0.1% - 1% by weight claims a larger range for the concentration of the surface postcrosslinker on the base polymer than does claim 1. Accordingly, claim 1 and 12 contradict one another. The requirements in terms of clarity under PCT Article 6 are therefore not met for claim 12.
- 3. Making the description consistent with amended claim 1 PCT Rule 5

Rule 5.1(a) (iii) requires the invention to be set out in the description in the same way as it is disclosed in the claims. Since this is not the case with the present description, PCT Rule 5 has not been met.

Since the description still contains passages of text (particularly at page 5 lines 8-10 ("for example 0.01% to 1% by weight, preferably 0.05% to 0.5% by weight, with particular preference 0.1% to 0.25% by weight".)) which relate to the original set of claims, contradictions are produced between the description and the claims. Accordingly the claims are not clear and not supported by the description, in contravention of PCT Article 6.